

Serial No. 09/981,161
Docket No. NEC N01293
Amendment E under Rule 116

AMENDMENTS TO THE CLAIMS:

Please cancel claims 1 and 4, without prejudice.

This listing of claims will replace all prior versions and listings of claims in the Application:

Claim 1 (canceled)

Claim 2 (original): An organic electro luminescence device comprising:

an anode;

an organic layer containing at least one organic light emitting layer;

a cathode;

a cap used to encapsulate device main components having said anode, said organic layer, and said cathode which are stacked on an insulating substrate; and

wherein said cathode has a first cathode and a second cathode and oxygen that is contained in an interface between said organic layer and said first cathode.

Claim 3 (original): An organic electro luminescence device comprising:

an anode;

an organic layer containing at least one organic light emitting layer;

a cathode;

a cap used to encapsulate device main components having said anode, said organic layer, and said cathode which are stacked on an insulating substrate; and

wherein said cathode has a plurality of layers and an oxygen content in a first cathode contained in said plurality of layers being in contact with said organic layer is larger than that in

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any cathode formed on a second cathode and afterward being not in contact with said organic layer.

Claim 4 (canceled)

Claim 5 (original): An organic EL according to Claim 2, wherein a film thickness of said first cathode is 20nm to 100nm.

Claim 6 (original): The organic EL device according to Claim 3, wherein a film thickness of said first cathode is 20nm to 100nm.

Claim 7 (withdrawn): A method for manufacturing an organic EL device for encapsulating device main components having an anode, an organic layer containing at least one organic light emitting layer and a cathode which are formed on an insulating substrate using a cap, wherein said insulating substrate on which said device main components are formed are put into a vacuum apparatus before encapsulation and oxygen is contained in an interface between said organic layer and said cathode in a reduced pressure atmosphere.

Claim 8 (withdrawn): A method for manufacturing an organic EL device for encapsulating device main components having an anode, an organic layer containing at least one organic light emitting layer and cathodes consisting of a plurality of layers which are formed on an insulating substrate using a cap, said method comprising;

a process of performing, after having formed a conductive film on said insulating substrate, a patterning operation on a conductive film so as to produce a desired shape in order to form said anode;

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a process of putting said insulating substrate on which said anode has been formed into a vacuum apparatus and staking sequentially said organic layer and a first cathode contained in cathodes having a plurality of layers on said anode in a reduced pressure atmosphere;

a process of introducing oxygen gas in said vacuum apparatus which said reduced pressure atmosphere maintained and causing said oxygen gas to be brought into contact with said first cathode;

a process of stacking cathodes to be formed after a second cathode has been formed on said first cathode in said reduced pressure atmosphere to form said device main components; and

a process of encapsulating said device main components using said cap.

Claim 9 (withdrawn): The method for manufacturing the organic EL device according to claim 7, wherein a film thickness of said first cathode is 20nm to 100nm.

Claim 10 (withdrawn): The film manufacturing the organic EL device according to Claim 8, wherein a film thickness of said first cathode is 20nm to 100nm.

Claim 11 (withdrawn): The method for manufacturing the organic EL device according to claim 8, wherein said oxygen gas is introduced so that a partial pressure of oxygen in said vacuum apparatus is 2×10^{-4} to 1×10^{-1} pascals.

Claim 12 (withdrawn): The method for manufacturing the organic EL device according to Claim 9, wherein said oxygen gas is introduced so that a partial pressure oxygen in said vacuum apparatus is 2×10^{-4} to 1×10^{-1} pascals.

Claim 13 (withdrawn): The method for manufacturing the organic EL device according to Claim 10, wherein said oxygen gas is introduced so that a partial pressure oxygen in said vacuum apparatus is 2×10^{-4} to 1×10^{-1} pascals.

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Claim 14 (withdrawn): The method for manufacturing the organic EL device according to Claim 7, wherein a vacuum evaporation apparatus is used as said vacuum apparatus.

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